

ABSTRACT OF THE DISCLOSURE

A fuel injector for injecting fuel into a combustion chamber of an internal combustion engine, having a pressure booster in which the piston divides a work chamber, acted upon permanently by fuel via a pressure source, from a pressure-relievable differential pressure chamber. A pressure change in the differential pressure chamber is effected via an actuation of a servo valve. The control chamber of the servo valve can be pressure-relieved via a relief valve and which opens or closes a hydraulic connection of the differential pressure chamber with a return. For closing the servo valve piston, the control chamber can be acted upon by a fuel volume diverted from the differential pressure chamber. The action of fuel on the control chamber is effected via lines that contain throttle restrictions. A pressure relief of the control chamber is effected via a relief valve into a return on the low-pressure side.